

Appl. No. 10/605,327  
Amdt. dated December 15, 2004  
Reply to Office action of October 21, 2004

### AMENDMENTS TO THE CLAIMS

1-11. (cancelled)

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12. (previously presented) An impedance circuit for providing an equivalent impedance between a first node and a second node comprising:  
a first impedance for providing a first impedance value;  
a first switch element coupled to the first impedance;  
10 a second impedance for providing a second impedance value; and  
a second switch element coupled to the second impedance;  
wherein the equivalent impedance is determined by continuously turning on and off the first switch element, and continuously turning on and off the second switch element.

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13. (previously presented) The impedance circuit of claim 12, wherein the first switch element is controlled to turn on and off by a first periodic signal.

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14. (previously presented) The impedance circuit of claim 13, wherein the second switch element is controlled to turn on and off by a second periodic signal.

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15. (previously presented) The impedance circuit of claim 12, wherein the first impedance comprises a first resistor, and the second impedance comprises a second resistor.

16. (previously presented) The impedance circuit of claim 12, wherein the first impedance comprises a first capacitor, and the second impedance comprises a second capacitor.

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17. (previously presented) The impedance circuit of claim 12, wherein the first impedance comprises a first inductor, and the second impedance comprises a second inductor.

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18-19. (cancelled)

20. (previously presented) An impedance circuit for providing an equivalent impedance between a first node and a second node comprising:  
10 a first impedance for providing a first impedance value;  
a first switch element coupled to the first impedance;  
a second impedance for providing a second impedance value; and  
a second switch element coupled to the second impedance;  
wherein the equivalent impedance is determined by the first impedance value and  
15 the second impedance value through controlling frequencies of turning on and turning off the first switch element and the second switch element.

21-22. (cancelled)